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DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION - TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT
REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS
INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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FCC Compliance Statements

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate frequency energy and, if not installed and used in accordance with the instructions, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to equipment off and on, the user is encouraged to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the distance between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

3-23-2011

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QuickStart Installation Guide



Windows & Mac



Thank you for choosing Fantom Drives! Your Fantom Drives GreenDrive Quad has been built to the highest standard of quality and workmanship and, when used according to the instructions in this guide, will provide years of trouble-free operation. We at Fantom Drives take great pride in bringing personal satisfaction to each of our customers.

Your Fantom Drives' disk drive is compatible with all USB-capable Apple Macintosh computers running Apple® Mac® OS 10.5 (or greater) and PC-Compatible computers running Microsoft® Windows® Vista, Seven, and Windows Server® 2003/2008.

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parts, options, alterations, and attachments not under warranty prior to returning the Product to Fantom Drives. Fantom Drives is not liable for any loss or damage to these items.

This limited warranty does not cover: (1) any consumables (such as batteries) supplied with this product; cosmetic damages; damage or loss to any software programs, data or removable storage media; or damage due to the Product such as but not limited to excessive heat or humidity, or modifications of this Product; (2) improper installation, operation, testing or maintenance of this Product; (3) power failure or connection to improper voltage supply; or; (4) attempted repair by any party other than Fantom Drives. This Warranty does not apply when the malfunction results from the use of this Product in conjunction with accessories, products or ancillary or peripheral equipment, or where it is determined by Fantom Drives that there is no fault with this Product itself.

This Limited Warranty is invalid if the factory applied serial number, product identification, or tamperproof sticker have been altered or removed from the Product.

Repair or replacement as provided under this warranty is the exclusive remedy of the consumer. Fantom Drives shall not be liable for any incidental or consequential damages for breach of any express or implied warranty, breach of contract, negligence, strict liability or any other legal theory related to this product. Such damage include, but are not limited to, loss of profits, loss of data, loss of use of the product or any associated equipment, down time and purchaser's time. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose on this product is limited in duration of this warranty.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitation or exclusions may not apply to you. This warranty gives you specific rights; you may have other rights which vary from state to state.

Two Year Limited Warranty

Fantom Drives warrants this product (the "Product") against defects in material or workmanship as follows:

1. LABOR: For a period of two (2) years from the original date of purchase from Fantom Drives or its authorized reseller, Fantom Drives will repair defective Product (or, at its option, replace with a new or recertified product) at no charge. After this 2 year period, you must pay for all labor charges.

2. PARTS: For a period of two (2) years from the original date of purchase from Fantom Drives or its authorized reseller, Fantom Drives will supply, at no charge, new or rebuilt replacement parts in exchange for defective parts of this Product. Any replacement parts will be warranted for the remainder of the original warranty period or ninety (90) days from installation by Fantom Drives. All exchanged parts replaced under this warranty will become the property of Fantom Drives.

This warranty only covers the hardware components packaged with the Product. This warranty does not cover any software contained in, or included with, the Product; any such software is provided "AS IS". Please refer to any documentation included with the software for your rights and obligations with respect to the software.

This warranty extends only to you, the original purchaser. It is not transferable to any one who subsequently purchases the Product from you.

Proof of purchase in the form of a bill of sale (which is evidence that the Product is within the warranty period) must be presented to obtain warranty service.

To obtain warranty service you must take the Product, or deliver the Product freight prepaid, in either its original packaging, or in a package that provides the Product with a degree of protection equivalent to that of the original packaging, to Fantom Drives. Items shipped with insufficient packaging will void the item's warranty, and may be rejected for service. Please contact Fantom Drives at the number listed on the reverse side for further information.

Fantom Drives is not responsible for any damage to, or loss of, any programs, data, or other information stored on any media or any part of any Product serviced hereunder. Be sure to remove all features,

Introduction

Welcome, and thank you for purchasing GreenDrive Quad Interface Hard Disk from Fantom Drives.

In photos and illustrations in this guide, The following alert symbols are used in this guide:



This signifies important information for ALL users.



This signifies important information for USB 2.0 users.



This signifies important information for eSATA users.



This signifies important information for FireWire users.

The GreenDrive Quad Hard Disk can only sustain one connection type at any given time; the drive will appear as an eSATA device when connected via eSATA, a FireWire device when connected via FireWire, and as a USB device if the USB cable is connected.

USB 2.0 compatibility with USB 1.x

USB 2.0 ports are backward compatible with USB 1.x. However, if you connect the Drive to a USB 1.x port, it will operate at USB 1.x speeds.



System Requirements

- Power Macintosh G4 or newer running Mac OS X 10.5 or newer
- Pentium 4-based PC, 1.8GHz or faster CPU, running Microsoft® Windows® Vista, Seven, Microsoft® Windows Server® 2003, 2008. Windows XP is supported for models up to 2TB.
- An available eSATA Port or
- An available USB 1.1 or 2.0 port or
- An available FireWire 400 port or
- An available FireWire 800 port

Parts & Accessories List

The package contains the following items:

- Fantom Drives GreenDrive Quad Hard Disk
- Quick Start Installation Guide
- FireWire 400 cable
- eSATA cable
- Disk Stand
- FireWire 800 cable
- USB cable
- AC Adapter

If you are missing any items listed above, please fill out the customer support form at:

<http://www.micronet.com/support/supportrequest.htm>



Please retain a copy of your receipt. You will need it if warranty repair service is required in the future

Precautions

Failure to follow the precautions described below may cause damage to your Fantom Drives External Hard Drive and void the warranty.

- DO NOT open the case. Doing so will void the warranty.
- DO NOT use a third-party AC adapter or power cord. Doing so may damage the Drive and void the warranty.
- DO NOT bump, jar or drop the Drive as this may damage it or result in loss of data.
- DO NOT disconnect any cables while the Drive is powered on without first properly dismounting the device via your operating system; doing so can result in data loss and possible damage.
- DO NOT set any liquids or beverages on the Drive as they may damage the internal electronics.
- Fantom Drives is not responsible for any data loss, nor will Fantom Drives perform any recovery on lost data or files. Fantom Drives highly recommends that you regularly back-up the files stored on your Fantom Drives External Hard Drive.

Q: I do not see my drive listed in the My Computer window, but it does appear in the Device Manager list.

A: Right-click on My Computer. Select Manage in the pop-up menu. In the Computer Management window and navigate to Storage -> Disk Management. In the Disk Management window, you should see a list of available storage devices. Look for the Disk that has a capacity closest to your Fantom Drives External Hard drive. Right-click on the right-hand box; in the pop-up menu select Delete Partition. Once you do this, it will say "Online" & "Unallocated". Right-click on the box and select Create New Partition in the pop-up menu. When the Partition Wizard appears, select "Primary Partition" and click "Next." You will see a default value for the drive; click Next, You will then see a drive letter (you can change this drive letter if you wish); click Next. You will then be asked to format the drive.

Q: After I connected the drive to my PC, I got the following alert message: HI-SPEED USB Device Plugged into non-HI-SPEED USB Hub. What does this mean?

A: This alert message means you plugged the drive into a USB port that only supports USB 1.1. Your drive will be accessible but will operate at USB 1.1 speeds.

If an issue cannot resolved by using our FAQ, please contact Technical Support via the Fantom Drives support site at <http://www.Fantomdrives.com/Support>

Q: Does the drive work with Norton Ghost/my disk imaging software?

A: Yes. Norton Ghost 2003 or newer support USB drives. Fantom Drives does not provide any additional drivers.

Q: I formatted my hard disk under Windows XP, but my Vista /7 machine does not allow me to delete or modify files on the drive.

A: Windows Vista and XP handle file permissions differently. In Windows XP the default user group has full permissions to every volume, whereas in Vista they do not. To fix this condition, you need to grant the users group modify privileges to the drive:

1. Right-click the drive letter in Explorer and select properties
2. Click the security tab
3. Click "Edit." You will be asked to enter your administrator password.
4. Select "Users" and check the Modify box
5. Click OK.

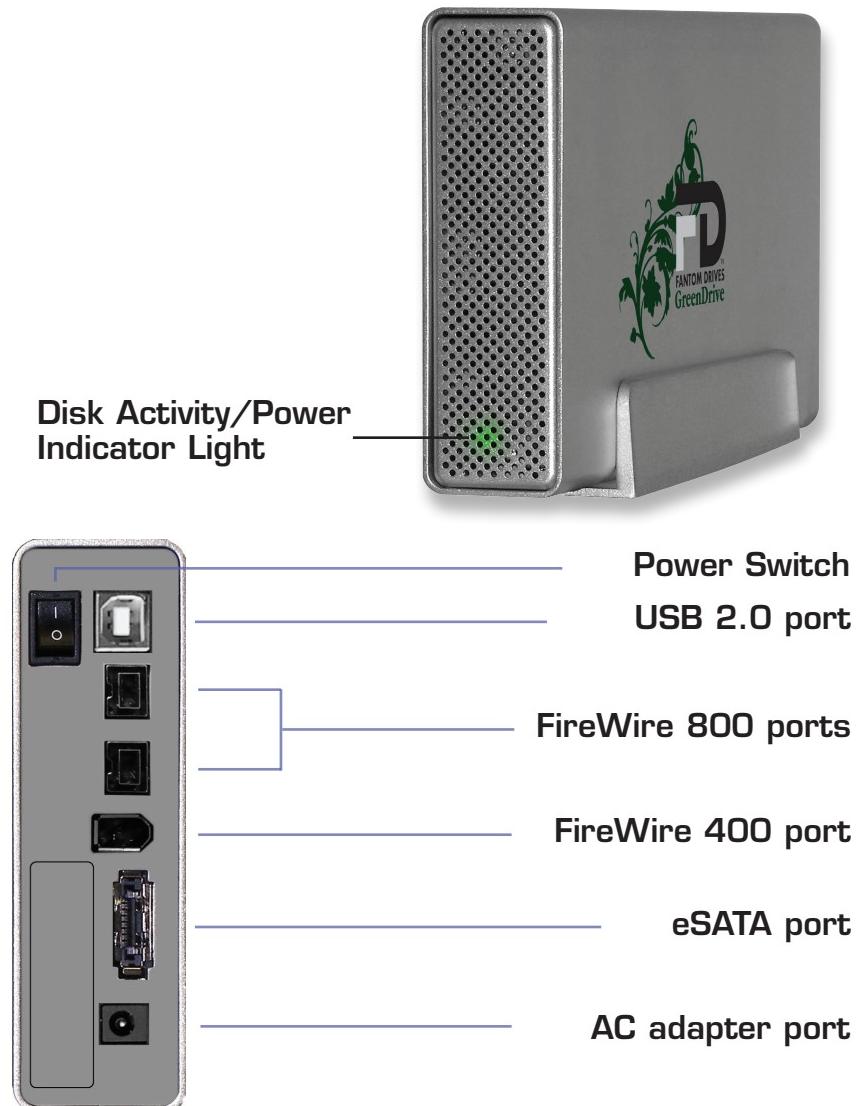
Q: Where are the drivers for my operating system?

A: Windows 2000 and newer already include all the necessary drivers. There are no drivers available for Windows NT or 98.

Q: When I leave my computer idle for a while, my drive won't work properly.

A: The most likely cause is that your computer is going into sleep mode. The immediate solution is to shut down your computer and turn off the drive, and then restart your computer. Once your computer is completely booted up, turn on the drive. You should see the drive in the Windows Explorer. To prevent this problem from recurring, open the "Power Settings/Energy Saver" and set it to never go into sleep mode.

Fantom Drives GreenDrive Quad Hard Disk at a Glance



Connecting the Drive to Your Computer

1. Plug the AC adapter cord into the power port on the back of the Drive. The plug should not require much effort to insert. Plug the other end of the power cord into a wall receptacle.

2. Connect the appropriate cable to your host:



USB, eSATA, and FireWire plugs are shaped so they can only be properly inserted one way. Be sure to insert the plugs properly or you may damage the drive and void the warranty.



(USB) Connect the square USB 2.0 connector (type B) of the included USB cable to a the square USB plug on the GreenDrive Quad, and the rectangular end to a free USB port on your computer.



(eSATA) Connect the included eSATA cable to a free eSATA port on your computer.

If your computer does not have eSATA ports, you may purchase an eSATA expansion card for your computer. Contact your authorized Fantom Drives reseller for further details.



(FireWire) Connect the included FireWire cable to a free FireWire port on your computer.

The GreenDrive Quad Combo Hard Disk has two FireWire 800 ports and one FireWire 400 port for connecting additional FireWire device in a daisy chain.

4. Press the power switch located on the back of the GreenDrive Quad Hard Disk. Once the Drive is powered up, your computer should recognize it and the Drive will be ready to use.

FAQs for Mac Users:

Q: Why is my drive asking me to format it? It was already formatted and it contains data.

A1: Run a disk repair utility on the drive.

A2: Perform permission repair on your system drive. Open the disk utility (located in /Applications/Utilities/Disk Utility.app.) Select your system drive (usually the first disk listed) and click "Repair Disk Permissions" in the "First Aid" Tab.

A3: Restart your computer. As soon as the bootup chime sounds, press and hold down the option-command-p-r key combination to reset the PRAM. Release the keys when the chime sounds a second time. Please refer to your Mac manual for more information on these procedures

Q: My computer does not recognize the drive.

A: Check to make sure that all of your connections are secure and that the power switch is in the "ON" position. Then check if your External Hard drive is listed in the Apple System Profiler. If the problem persists, verify that the port used is functioning.

Q: I'm trying to copy files to/from FAT32 volumes or network shares, and it keeps failing.

A: FAT32, HFS+, and other file system formats allow different standards of filename length or use of special characters. Rename the offending file(s) and try the operation again.

Q: I have a FAT32 disk, and when I try to copy a large file I get an error saying there is not enough room on the drive- I have lots of free space!

A: FAT32 only allows files up to 4GB in size. To copy larger files, please reformat the volume using MacOS Extended Format.

FAQs for PC Users:

Q: My computer does not recognize the drive.

A: Make sure all of your connections are secure. If you connecting the disk to an add-on card, make sure it is working properly and/or update the driver. Also, make sure you have all the latest updates for your Windows installation

Troubleshooting

General Questions

Q: I bought a 500GB drive, but my computer is showing 465GB. Where is the missing capacity?

A: Hard drive manufacturers market drives in terms of decimal (base 10) capacity. In decimal notation, one megabyte (MB) is equal to 1,000,000 bytes, and one Gigabyte (GB) is equal to 1,000,000,000 bytes. Many operating systems use the binary (base 2) numbering system to describe disk capacity, where one megabyte is equal to 1,048,576 bytes, and one gigabyte is equal to 1,073,741,824 bytes. Simply put, decimal and binary translates to the same amount of storage capacity.

Q: Is my external hard drive bootable?

A: Yes! As long as your host hardware and operating system support booting from eSATA, USB (PCs) or FireWire (Mac). Refer to your computer's documentation for more information

Q: My drive was working fine yesterday but now its gone!

A: The disk may have been shut down without being dismounted, or may have failed. If you do not hear and feel the drive spin up when you connect the power, the drive will need to be replaced. If you verify that the computer input and the drive data cable are working, you may be able to repair or recover the data with your computer's disk repair utility or a third party utility. If your disk repair utility cannot repair or see the disk, the drive has failed and will need to be replaced. If data recovery is desired, please contact an established professional data recovery firm. For a checklist of what qualities you might seek, see www.drivesavers.com/why_drivesavers/index.html or www.ontrack.com/services.

Q: Can I leave my GreenDrive Quad on all the time, or should I turn it off when not in use?

A: The GreenDrive Quad is meant to be left on, but does not add any limitations on being turned off. Drive reliability is definitely affected by repeated power cycles, and the GreenDrive Quad cannot alleviate this. In addition, Fantom Drives recommends that the drive's power supply is connected through a UPS or surge protector; In case of a power surge or brown/black out the hard drive's sensitive electrical components will not be damaged.

Formatting Your Drive

THIS DRIVE HAS BEEN PREFORMATTED FROM THE FACTORY USING THE HFS+ FILE SYSTEM. HFS Plus is a file system developed by Apple Inc. as the primary file system used on Macintosh computers.

If this drive is to be used with Macintosh computers exclusively, you may leave the file system as is.

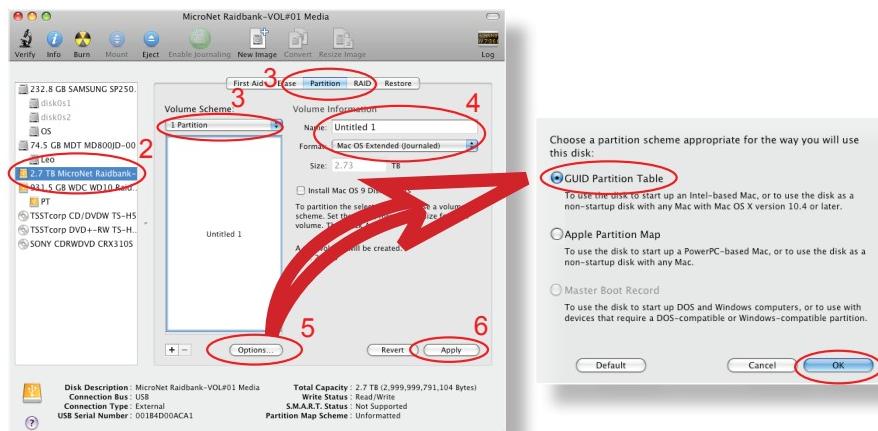
HFS+ has limited compatibility with Microsoft(R) Windows hosts. If this drive is to be used with non Macintosh computers, reformatting the disk drive to a native file system is recommended, but HFS volumes are accessible via third party software such as MacDrive from MediaFour (www.mediafour.com).

ATTENTION! Your Fantom Drives device may be larger than 2TB. Large LUNS (>2TB) must be supported by the host bus adapter and the host operating system to be usable. Windows 2003 and newer, Mac OS X 10.4.8 and newer, and Linux distributions with appropriate kernels all support large LUNS. Windows XP and prior cannot address large LUNS.

Formatting a hard drive erases all data contained on it. Please be sure to create a copy of the files you wish to keep to another location before reformatting.

Formatting the drive in Mac OS X

1. Launch the "Disk Utility" application located under Applications/ Utilities folder.
 2. Highlight your new drive and select the "Partition" tab
 3. Select the new partition map type.
 4. For each partition in the volume scheme, select the desired file system format and volume name (optional)
- The recommended file system is "MacOS Extended"**
5. Click the "Options" button. Select "GUID Partition Table" in the dialog box and click "OK".
 6. Click "Apply." Your Fantom Drives GreenDrive II is ready to use!



How to Safely Dismount and Turn Off the External Hard drive

What do 'mounting' and 'dismounting' mean? When a device such as a hard drive is mounted, that means the computer 'sees' the device and is able to communicate with it. When you dismount a device, the computer no longer sees it. The device may still be running but the computer cannot access it, as though the device no longer exists.

Never turn off or unplug a hard drive without dismounting it first. Doing so could cause data on the drive to be lost or damaged.



How to safely dismount and turn off the drive with the computer running

Mac Users

Drag the icon for the External Hard drive to the Trash. The drive will dismount and you can then safely turn it off. You may then unplug the power cord and data cable if you want to disconnect the drive.

PC Users

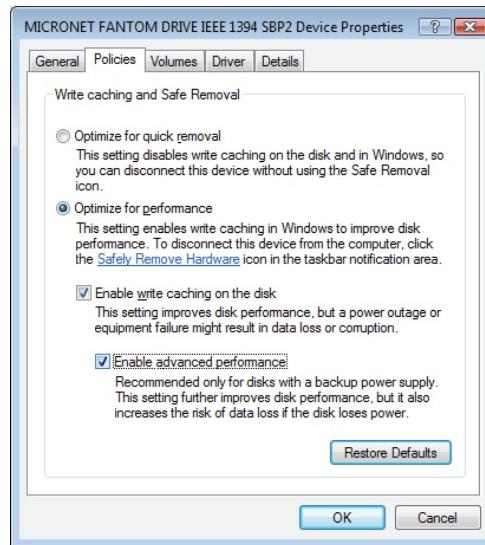
1. Locate the System Tray. The System Tray includes the time display in the bottom right, and icons to the left of the time. One of the icons will be a hot plug icon (USB).

2. Left-click on (USB). You will receive the alert message "Safely Remove.." followed by the drive description and drive letter for the device.

3. Left-click on the appropriate device (with the drive letter matching the one used by the External Hard drive). After a few seconds, Windows will give you a message that it is safe to remove the device.

Optimizing Windows Caching Algorithm

By default, Windows XP optimizes caching for performance on external drives. Vista optimizes caching for quick removal. As a result, Windows XP appears to have faster access to external disks but at a greater risk of data corruption and loss. To change Windows' caching algorithm, open the disk management console located at \\Windows\\System32\\diskmgmt.msc on your system drive. A list of the attached drives and their respective volumes will appear. Right-click on the Fantom external disk in the disk list and select properties. Select the Policies Tab near the top left of the window, and click your desired optimization level. press OK when finished, and you may close the disk management applet.



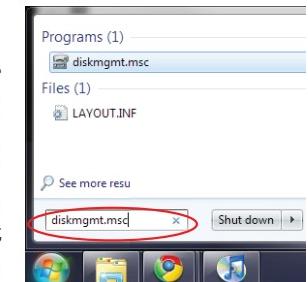
Optimizing for performance can greatly enhance the throughput of your disk but is much more vulnerable to data loss! Make sure to have appropriate backup strategies before enabling this feature!

Volume Setup on Microsoft Windows Vista/7/2008

Installation on a Windows system requires a Windows Installation with a properly installed and configured respective host bus.

1. Open the disk management console. To open Disk Management, click the Windows Start menu orb. In the search box type *diskmgmt.msc*, and press enter.

A list of the attached drives and their respective volumes will appear. Each Volume set will appear as an individual disk in the management console. Upon the first time the Fantom Drives volume is connected, a "Initialize and Convert Disk Wizard" should appear when the disk management console is run. You may use the Wizard to set up the volume, or follow the next steps for manual configuration.

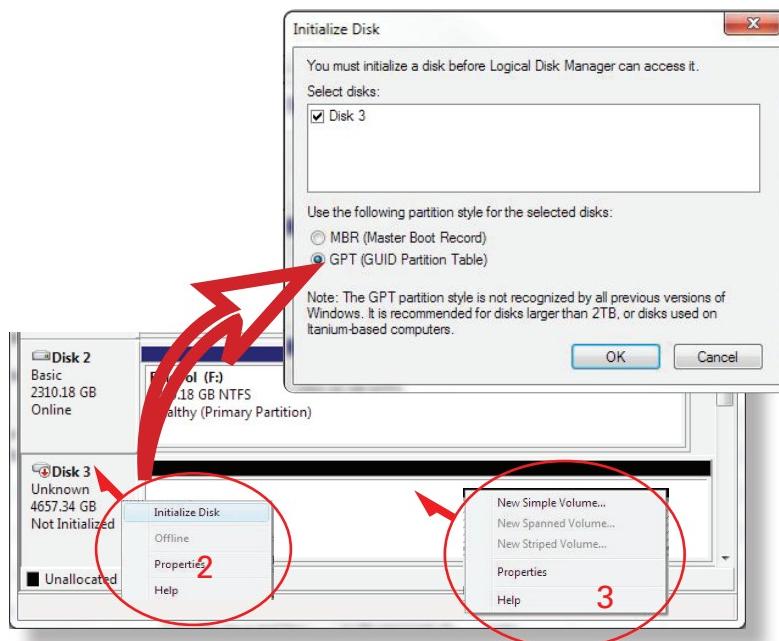


2. Right-click (水肿) on the Fantom Drives volume. If it's not initialized for use in your system, it will be denoted by a red down arrow on its disk icon (Disk 3). Right-click (水肿) on the disk and select "Initialize Disk." Windows will prompt you to choose a partition style. Choose GPT for volumes larger than 2TB, or MBR for smaller volumes.

Note: The GPT Partition style is not recognized by all previous versions of Windows, and is required for proper addressing of volumes larger than 2TB. If you intend to use a volume on older versions of Windows, consider creating multiple smaller volumes partitioned in the MBR partition style.



3. Right-click (➊) the initialized volume (The area right of the disk icon.) In the context menu, select "New Simple Volume." Follow the on screen instructions. In the File System pop-up menu, select NTFS. The default formatting option is quick format, which will take just a few minutes, but will do less verifying of the Drive than a Full format. A Full format will take about 30-90 minutes. Once the format process is complete, your Fantom Drives disk is ready to use.



Formatting the Drive in Windows 2000/XP/2003/Vista

1. Open the disk management console, located at \\Windows\System32\diskmgmt.msc on your system drive. A list of the attached drives and their respective volumes will appear. Select the Fantom Drives GreenDrive Quad Disk.

2. Right-click on a GreenDrive Quad volume. If it's not initialized, a red "No Entry" icon will cover the disk icon. Right click on the disk and select "Initialize Disk." Follow the on-screen instructions.

3. Right-click the initialized volume (The area right of the disk icon.) In the context menu, select "New Partition." Follow the on screen instructions. In the File System pop-up menu, select NTFS. The default formatting option is Full format. A Full format will take about 30-90 minutes. A Quick format will take just a few minutes, but will do less verifying of the Drive than a Full format. Click Start. Once the format process is complete, your GreenDrive Quad is ready to use.

